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### (54) NETWORK MANAGEMENT APPARATUS

#### (57) Abstract:

**PROBLEM TO BE SOLVED:** To smoothly test PVC passing through or reaching another carrier, having different testing standards by translating a request to test PVC passing through this carrier from the other carrier into a test procedure of this carrier for a path in the carrier that the PVC passes through and informing a test request source of the other carrier of the test result.

**SOLUTION:** A PVC(permanent virtual connection) is set between nodes N1 and N2, to which an originating user and a terminating user are connected and physically set among carriers K1 to K3 having different internal test procedures. A network management device M1, when testing the PVC, tests lines C1 and C2 between the node N1 and a gateway exchange I2 and requests network management devices M2 and M3 to conduct test concerning lines C3 to C6 having different test procedures. The network management devices M2 and M3 translate the test requests into test procedures determined for the carriers K2 and K3, tests the

lines C3 and C4, and C5 and C6, and report the test results to the network management device M1 as the test request source.

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